The adults were first observed at Westhury, New York, May 25. Both sexes were observed upon the foliage and new growth, feeding, mating and egg laying. They were very abundant, five or six examples occurring on one stem. The adults damage the stems in feeding and in making egg punctures which are sometimes so plentiful as to cause the stem to wilt. The eggs hatch about ten days after locing deposited. The larvae work in the shoots and leaf stems, making holes and mines that weaken them. When severe, the new growth dies and the leaves wilt or the wakened stems blow off or the conditions are attractive for other insect tronble or fungus discase. About the last of July the larvae are full grown and leave the stems and go into the ground.

Cryptorhynchus fallax L.ec.--Reared from Quercies allou and Cercis canadensis. Hummelstown, Pa., VHI-3. VIlI-22 Kirk and Knull.

## New Records of Aquatic Hemiptera for the United States, with Description of New Species.

By l. R. de la Torre-Bueno. White Plains. New York.
Prof. H. B. Hungerford, of the University of ドansas, sent me a number of odd water-bugs for examination. These present a number of new and noteworthy occurrences, some being recorded for the first time from the United States, to which special attention should be drawn through a separate note, rather than to lose them in a general paper on a group.

Buenoa elegans Fieh. Cherokee County, Kansas, Aug., 1920. (Hungerford and Beamer). First record for the State.

Buenoa margaritacea Bueno. Cherokee County, Kansas, Aug.. 1920. (Hungerford and Beamer). Another first record.

Ranatra kirkaldyi Bueno. Cherokee County, Kansas. (Hungerford and Beamer). This likewise is new to Kansas.

It may not be amiss to comment here on the validity of this species. in advance of a future careful analysis of the genus. Prof. Montandon, withont knowing the sjecies in nature, proceeds to symonmmize it (1910, linll. Soc. Sci. Buc., xiiii, 18.3) with $R$. fussa P. B., in which, natumally, Van Duzec follows him in his Catalog $(1917,1,4(2)$. However, there are speci-
 Montandon, which are the same form I recognize at l'alisot
de Beauvois' species. It also seems to be R. nigra H. S., according to the head structure. This species is separable from all the other United States forms known to me by having a profoundly unisulcate prosternum. This note complies with the requests of my correspondents to rectify the matter. The synonymy and distribution of Ranatra fusca, R. kirkaldyi and $R$. nigra, as given by Montandon and Van Duzee, are incorrect and will require careful study to straighten out finally.

Gelastocoris oculatus Fabr. This species is another new Kansan record, and is likewise authentic. I can find no difference between the two specimens before me from Cherokee County, Kansas, Aug. 1920 (Hungerford and Beamer), and specimens of the typical form from Washington, D. C.

Gerris (Aquarius) orba Stal. Bluff, Utah. (R. C. Moore). A new record for the State.
Cerris (Tenagogonus) hesione Kirkaldy. Cherokee County, Kansas. Aug., 1920. (Hungerford and Beamer). This delicate little gerrist is a first record from Kansas, which is the farthest western 1.0.nt from which the species is known; the other two states in which it 1 as been found are Florida and Ohio.

Microvelia circumcincta Champ. Ardmore, Okla. (R. C. Moore). This is a most interesting record. The species was described by Champion from Guatemala. I took it in Tamaulipas, in Northern Mexico, and have seen it from Texas. These are all new distributional records.
Rhagovelia distincta Champ. Yampa R., N. W. Colorado (R. C. Moore). This is another of Champion's Central American specics, now positively recorded from the United States. Walker (Catalognc) records the species from "Ind.." so noted by Van Duzee (Cataloguc).

## Trepobatopsis trux n. sp.

Ifrad: Broader (including eyes), and longer than prothorax: tumid and as long as broad between the eyes. Fyes moderately large, quite obliture, shorter axis (breadth), four-fifths of the longer. Three large black shining setigerous loci in a line near each eye. Antemue slender (first two joints only present in type) : basal joint curved at base ; second joint one-fourth length of first, slightly enlarged at tip. Ro:trum short, stout, 3 (?) visible joints covered with long silvery grey hairs.
Thorar: All three thoracic segments distinct dorsally. Pronotum alout three times as wide as long, narrower than head with eyes, set in a deep emargination in mesonotum. Prosternum with deep acetaluala under eyes for anterior coxae. Mcsonotum twice as wide as long. divided medially by a deep longitudinal linear suture; anteriorly decply roundedly emarginate to receive the pronotum; posteriorly sinuate. Mesoplenrae extended lackward to level of posterior margin of meta-
notum, simple, without sutures. Mesostirmum simple, a deep submarginal suture dividing off the pleurae for about one-half their length. Hetanotum ahout one-half lengtl of promotum. simate posteriorly and divided in two by a sinuate cross suture: anterior part longer than posterior; lateral pieces (acetabula) for the coxae running back half way of the second abdoninal segment. Jetasternum concealed.

Abdomen: Slightly longer includine genital segment, than wide ( $\delta$ ) ; not quite as long (including renital abdominal segment) as wide ( O ) ; connexivum wide, so reflexed as to be practically vertical: six abdominal segments visible dorsally and seven sternally, exclusive of the genital segment ; $\sigma$ th abdominal segment ( $\hat{\text { o }}$ ) leneath emarginat trapezoidally posteriorly to receive 7 th sequment; 7 th segment twice as long as any of the others, roundedly emarginate to receive cylindrical genital segment; all nther segments short and ringlike and subequal in length. Gemital segment (i) cylindrical, rounded terminally, slightly longer than hroad, as long as the four terminal abdominal segments taken together; beneath with a rounded operculum through which the genitalia show as two rounded protuberances, one in front of the other. Seventh abdominal segment ( \& ) long and broad, beneath emarginate trapezoidally posteriorly to receive genital segment: all other segments short and ringlike and subequal in length. Genital segment ( \& ) narrow, roundedly triangular with a keel-like longitudinal slit and a knoblike apex.
Ligs: Anterior femora moderately stont, unarmed; tibiae onc-quarter longer, more slender. Intermediate femora to tibiae as 7 to 9 in length. slightly stouter than tibiae, covered with short stout hairs, spine-like in middle leg, longer spinous bristles at ends of joints. Two stout spines at distal end of femur. Anterior femora only present in type: other joints of legs described from the type series specimens.
Color: Head somewhat flavous or darker with blackish pattern, covered with long silvery grey pubescence, the 6 setigerous loci shining black. Prothorax black, middle flamns and anterior margins broadly slate grey. Mesothorax black. a broad slate-grey stripe, and pleura and sterna all slate grey; a double line of black spots running down the tergum, rather linear on the posterior margin of the abominal segments; of genital segment piceous: two round hlack spots on the of genital segment, the extreme linob of which is piceous. Alidomen beneath the same colors, except that the llack markings are more linear and placed on the posterior margin of each segment, widest on the Gth and disappearing on the first and second: the last (7th) sequment is broadly roundedly black in of and subtriangularly black medially in $\circ$. Edges of genital segment black in $\circ$ : black in d.

The general ground color is black, body puhescence silvery grey and long partictlarly on the rostrum, or slaty grey and velvety.

Dimensions: Type-long, 4.4 mm ; lat., 2.2 mm . Vlotype-long, 5 mm ; lat., 2.7 mm .

Type-Apterous ó, Yampa River, N. W. Colorado, August 20, 1920 ; allotype, same data; paratypes, 2 males and 5 females. same data. R. C. Moore, collector. Type, allotype, 1 male and 4 female paratypes, in collection of University of Kansas: 1 male and 1 female paratype in my collection.

Described ander binocular microscope, with 55 mm . objective and $x 10$ eyepiece, and 24 mm . eyepiece for pubescence and finer details. Eyepiece micrometer ruled to .001 mm . used for proportions.

This species seems to belong in the monotypic genns Trepobatopsis. described by Champion from a single mutilated apterous male from Mexico (Sallé). The female and the winged of both sexes of donticormis Champ, are still to be described. The absence of the antennal joints and tarsi, however. forbids certainty as to the genus to which our species is to be attributed, but if it represents another genus, it is probably a new one. close akin to Trepobatopsis.

This species differs generically from Trepobatcs Uhler in the size and proportions of the head; proportion of first two antennal joints; pronotal proportions, and structure of abdomen. The color and the proportions of the leg segments and the absence of teeth on the anterior femora and the intermediate tibia at once separate it from Trepobatopsis donticomis Champ.

## Atrytone kumskaka Scudder (Lep., Rhop.).

By Henry Skinner.

This Hesperid has been moler discussion for a mumber of years and has not been positively identified. Specimens taken in lowa were referred to conspicua Edwards by Dr. Scudder. Discovering lis mistake in 1887, he named the species kumskaka and gave a full description of it and figured the abdominal appendages of the male. It was described from two males and three females from the "Western States." According to the description of kumskaka (comspicua nec Edwards) in the Transactions of The Chicayn Academy of Scicuces, two males and a female were taken by J. A. Allen, at Denison, lowa, in July, on Echinacou angustifolia D. C.. a plant growing on grassy knolls of the open prairic. Mr. Nathan Banks has very kindly

